





Marian Mithani

Eco-Counter

The New Hampshire

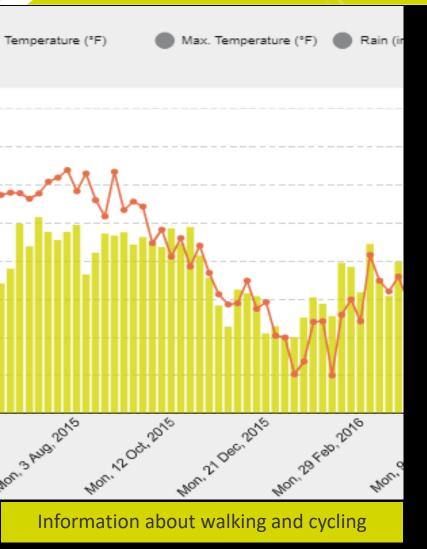
COMPLETE STREETS CONFERENCE

Friday, October 19, 2018

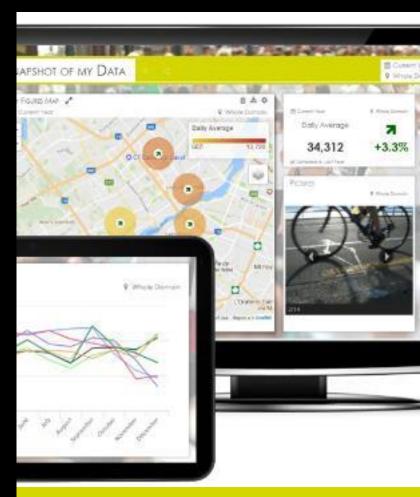
Put your hand up if...

- To your knowledge, your community **collects** pedestrian or bicycle count data.
- You have **done a manual count** of pedestrian or bicycles count, or have **used automated counters**
- In your role, you <u>use</u> or <u>could benefit from</u> pedestrian or bicycle <u>count data</u>
- You have heard of Eco-Counter.

What we do







Automated counters

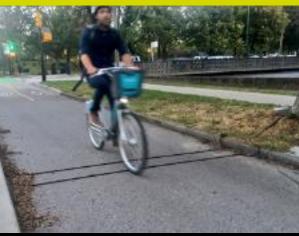




All kinds of ways to count



PYRO-Box



TUBE



Urban POST



PYRO in Post / MULTI



CITIX



Mobile MULTI



ZELT

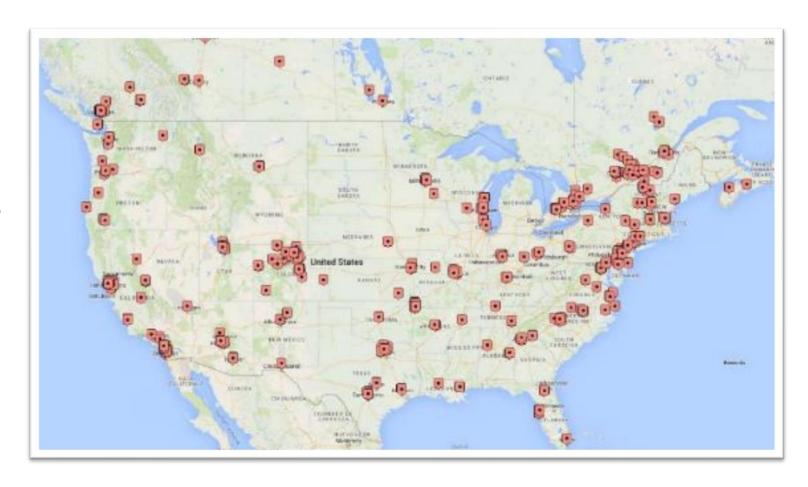


Eco-DISPLAY Classic



What is the Eco-Counter perspective?

- Over 500 organizations
- Specializing in pedestrian and bicycle counting for 15+ years
- Clientele network across cities, counties, MPOs and state DOTs
 - Including New Hampshire!
- View of partnership models
- View of established ped/bike count programs 5+ years in North America





Why Count?

• Establish a baseline

Observe demand and trends

Evaluate a project

• Inform operations / management





1. Pilot Project

- Trial period
- Test technology, sites or management
- Reporting process evolves
- Goals: baseline + evaluation

Pro: quick, flexible learning period, limited risk

Con: next steps can be undefined, funding sources vary,





Hamilton, Ontario

- Started in 2011 with portable pedestrian counters
- "Graduated" to tube counters in 2013.
- Helped to identify permanent sites for 2014/15
- Focused on permanent counters off-road 2016
- On-road bike counts continue where facilities exist, rotating locations
- Over 6 years, 100 sites, with 1-week samples for consecutive seasons

2. Integrate with network

- Link to AT infrastructure projects
- As sidewalks, bikeways, trails are built
- Data infrastructure concept
- Goals: trends, evaluation, operations

Pro: parallel processes for deployment, can be high-prov

Con: requires early buy-in, capital vs. operational dollars



Boulder, Colorado

- Started with signature project
- First focused on bikes, then pedestrians
- Added permanent counter to corridor projects
- Starting to add retrofit site
- Currently rely on TMC for shortduration counts

'Eco-Totem' to count real-time cyclists in downtown Boulder

By Sarah Kuta

Camera Staff Writer

POSTED: 07/08/2014 07:21:39 PM MDT | UPDATED: 3 YEARS AG



A cyclist passes an Eco-Totem sign, which will count how many people pass by on bikes, on 13th Street in Boulder. (Mark Leffingwell /

Partnership or governance

- Share ownership
- Distribute roles and responsibilities
- More organizations involved/aware

Pro: shared engagement and expertise

Con: responsibilities and ownership can be unclear



Hawaii Institute of Public Health

- Based on active transportation as means of physical activity
- Initial project: pedestrian and bike display on Honolulu's first protected bike lanes
- Expanded to be inclusive to 4 counties states-wide
- Funding for portable counter and training to get started



4. Comprehensive Plan

- Site selection
- Installation
- Ownership / maintenance
- Data collection / reporting

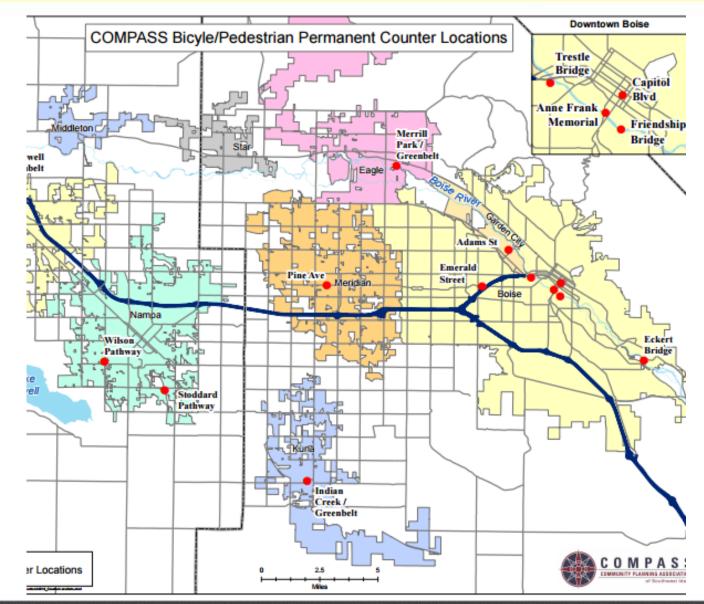
Pro: inclusive approach, many stakeholders, pre-determined outcomes

Con: time to develop + deploy



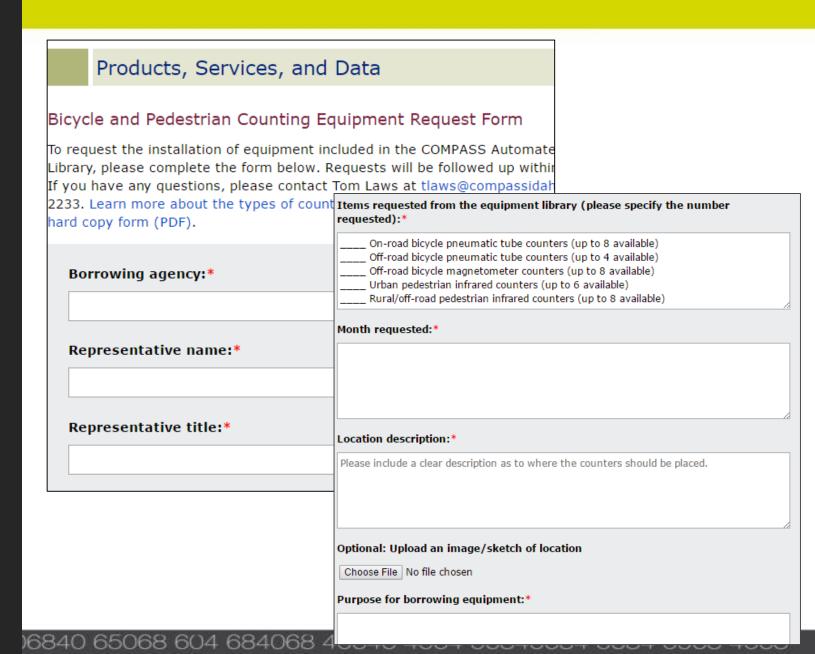
COMPASS Idaho

- Key project of newly-formed AT working group in 2014
- Met regularly to discuss all things related to data and counters
- Installed 8 permanent counters in early 2015, need to be fair
- Adding sites to network each year
- View of on-going demand



COMPASS Idaho

- Working group developed process for count requests
- Managed in-house: install and data reports, 1 month interval
- Started in 2016 with 20-30 requests, 100+ requests in 2017
- Current challenge: person hours, site review,
- Considering shift to a counter library
- Challenge/concerns: proper installation, care of equipment





Pilot

Saskatoon, Saskachewan

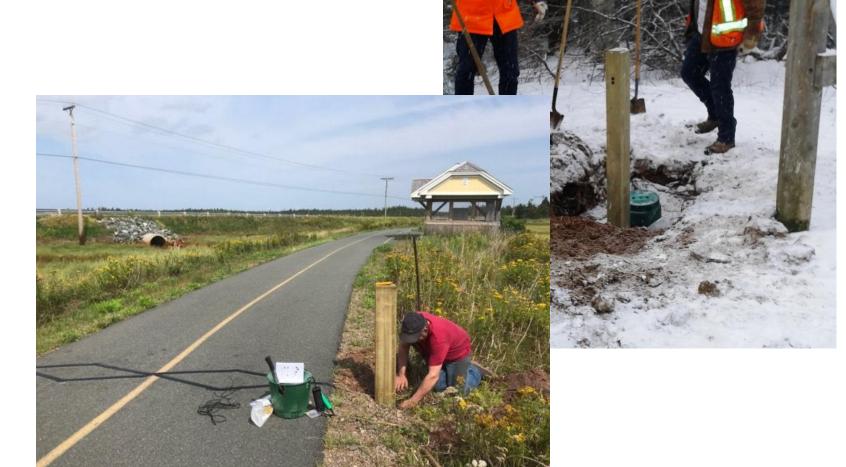
- Population: 250,000
- First protected bike lanes
- Long-term pilot project > 1 year
- Everything temporary
- Move or reuse counters per expansion and construction



Shippagan + Bathurst New Brunswick

Partner

- Shippagan: New Brunswick Trails
 - Pop: 2500 people
 - Multi-use counter
 - Motivated to understand ATV impact
 - Daily 60 / 40 bike / ped
 - Very few ATV < 10 in a month
- Bathurst: Daly Point Nature Reserve
 - Pop: 12,000 people
 - Trail counter at park entrance
 - City purchased, managed by reserve
 - Year-round visitor since Jan 2017
 - Avg 75 daily, ranges 100 to >500

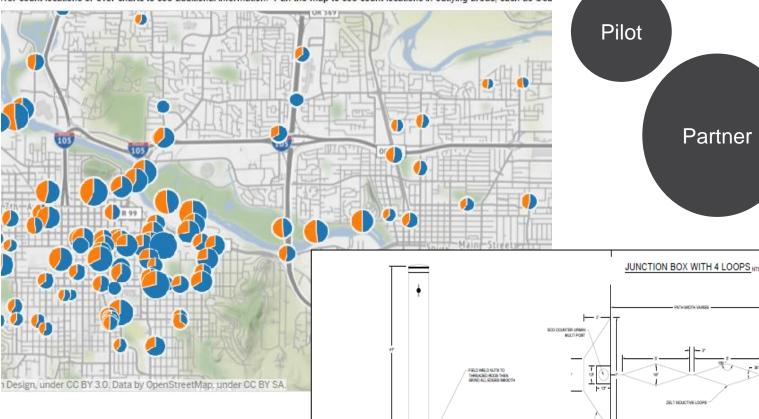


Lane COG, Oregon

- Biggest cities: Eugene (150,000)
 and Springfield (60,000)
- 7 years in development
- First few years: focus on cycling, short-duration
- Next phase: pedestrian counts
- Used to apply for federal funds, installed permanent stations
- Partners with Eugene for technical expertise

Bicycle Counts in Central Lane MPO Area

elect location(s) on map to see average daily counts, aggregated by year and season, and count shares by time of day at selected con bar chart to show counts (and count locations) for a specific year and/or season. Click again to release selection, or make a n wer count locations or over charts to see additional information. Pan the map to see count locations in outlying areas, such as Cob



SENSOR POST WITH 2 LOOPS NTS

SENSOR POST AND FOUNDATION NTS

Calgary, Alberta

Pilot Network Plan

- Large city, auto-oriented, 1M
- 5 years in development
- First projects to test technologies, short-term bike counts
- Key project: pilot downtown bike grid (2 years)
- Supplement to all other data collection
- Good practices: public data, crossdepartment collaboration, defined plan



Ottawa Ontario



- Large city, capital district, 1M
- 8 years in development
- First pilots: permanent bike count stations (urban sites)
- Shift to rural and trail sites
- Key practices to success: design standards, maintenance program, rotating contractors
- Gradual expansion from 10 to 30 sites



Other practices and ideas

- PILOT: part of grant applications
- NETWORK: site selection by key corridors: bridges, trails, signature projects
- PARTNER: complement to manual counts by volunteers
- PLAN: counter specifications within project tender





Key factors to successful program

- Ownership
 - Remember the goal
 - Be willing to take the lead
- Awareness:
 - Share your data!
 - Centralize information
- Manageability:
 - Keep long view, one step at a time
 - Adjust approach to staff/org strengths
 - Balance gaining experience vs. more sites/



Words of wisdom



Have a story

Have a story to tell from the data. It's okay to start small. People respond well to information presented in a clear way.

- Ellen Currier, Lane County COG

Be patient

Be patient. There will be set backs, but I never heard a comment that the audience did not want this data

-Steve Molloy, Hamilton

Don't get discouraged Don't get discouraged by other cities. It may seem a lot to learn, but you get something really valuable with 24h data.

• -Tom Laws, COMPASS

Thank you!

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